

In the Claims

This listing of claims will replace all prior versions, and listings, of claims.

Listing of Claims

1. (Currently Amended): A system for capacity management comprising a computer readable medium storing program code for execution by a computer, the program code, comprising:

a processor;

a computer readable medium storing program code to be executed by the processor, the program code comprising:

an order management module to receive a plurality of orders, wherein the orders are classified into a first type and a second type, the first type orders comprises at least a first order having a period delivery demand, wherein the period delivery demand designates a specific period, and directs a supplier to deliver products corresponding to the first order at an arbitrary delivery date planned by the supplier, and the arbitrary delivery date is before the end of the specific period, and the second type orders comprises at least a third order having an on-schedule delivery demand, wherein the on-schedule delivery demand designates a specific due date, and directs the supplier to deliver products corresponding to the third order on the specific due date, wherein a respective capacity is reserved for the first order and the third order; and

a pull-in engine to receive a second order with a pull-in demand, identify and select at least one of the first order within the first type orders, push out the selected first order, and direct the capacity reserved for the selected first order to meet the second order.

2. (Currently Amended): The system of claim 1 further comprising an allocation module to allocate additional capacity for the selected first order.

3. (Currently Amended): The system of claim 2 further comprising a planning module to generate a new manufacturing planning schedule and delivery dates for the selected first order and second order.

4. (Currently Amended): The system of claim 1 wherein the selected first order further has a billing condition directing the supplier to generate a bill for the selected first order as late as possible.

5. (Currently Amended): A method for capacity management for use in a computer system, comprising the steps of:

receiving a plurality of orders, wherein the orders are classified into a first type and a second type, the first type orders comprises at least a first order having a period delivery demand, in which the period delivery demand designates a specific period, and directs a supplier to deliver products corresponding to the first order at an arbitrary delivery date planned by the

supplier, and the arbitrary delivery date is before the end of the specific period, and the second type orders comprises at least a third order having an on-schedule delivery demand, wherein the on-schedule delivery demand designates a specific due date, and directs the supplier to deliver products corresponding to the third order on the specific due date, wherein a respective capacity is reserved for the first order and the third order; receiving a second order with a pull-in demand; [[and]] identifying and selecting at least one of the first order within the first type orders; and pushing out the selected first order, and directing the capacity reserved for the selected first order to meet the second order.

6. (Currently Amended): The method of claim 5 further comprising allocating additional capacity for the selected first order.

7. (Currently Amended): The method of claim 6 further comprising generating a new manufacturing planning schedule and delivery dates for the selected first order and second order.

8. (Currently Amended): The method of claim 5 wherein the selected first order further has a billing condition directing the supplier to generate a bill for the selected first order as late as possible.

9. (Currently Amended): A system for capacity management comprising a computer readable medium storing program code for execution by a computer, the program code, comprising:

a processor;

a computer readable medium storing program code to be executed by the processor, the program code comprising:

an order management module to receive a plurality of orders, wherein the orders are classified into a first type and a second type, the first type orders comprises at least a first order having a period delivery demand, in which the period delivery demand designates a specific period, and directs a supplier to deliver products corresponding to the first order at an arbitrary delivery date planned by the supplier, and the arbitrary delivery date is before the end of the specific period, and the second type orders comprises at least a third order having an on-schedule delivery demand, wherein the on-schedule delivery demand designates a specific due date, and directs the supplier to deliver products corresponding to the third order on the specific due date, wherein a respective capacity is reserved for the first order and the third order; and

a pull-in engine to identify and select at least one of the first order within the first type orders, push out the first order, and direct the capacity reserved for the selected first order to meet other orders if a production event occurs during product manufacturing in the supplier.

10. (Currently Amended): The system of claim 9 further comprising an allocation module to allocate additional capacity for the selected first order.

11. (Currently Amended): The system of claim 10 further comprising a planning module to generate a new manufacturing planning schedule and a delivery date for the selected first order.

12. (Currently Amended): The system of claim 9 wherein the selected first order further has a billing condition directing the supplier to generate a bill for the selected first order as late as possible.

13. (Currently Amended): A method for capacity management for use in a computer system, comprising the steps of:

receiving a plurality of orders, wherein the orders are classified into a first type and a second type, the first type orders comprises at least a first order having a period delivery demand, in which the period delivery demand designates a specific period, and directs a supplier to deliver products corresponding to the first order at an arbitrary delivery date planned by the supplier, and the arbitrary delivery date is before the end of the specific period, and the second type orders comprises at least a third order having an on-schedule delivery demand, wherein the on-schedule delivery demand designates a specific due date, and directs the supplier to deliver products corresponding to the third order on the specific due date, wherein

a respective capacity is reserved for the first order and the third order;
[[and]]
identifying and selecting at least one of the first order within the first type orders if
a production event occurs during product manufacturing in the supplier;
and
pushing out the selected first order, and directing the capacity reserved for the
selected first order to meet another order-if a production event occurs
during product manufacturing in the supplier.

14. (Currently Amended): The method of claim 13 further comprising allocating another capacity for the selected first order.

15. (Currently Amended): The method of claim 14 further comprising generating a new manufacturing planning schedule and a delivery date for the selected first order.

16. (Currently Amended): The method of claim 13 wherein the selected first order further has a billing condition directing the supplier to generate a bill for the selected first order as late as possible.

17. (Currently Amended): A method for capacity management for use in a
computer system, comprising the steps of:
separating orders based on respective corresponding delivery demand, thus
identifying orders of a first type and a second type, in which each order of

the first type designates a specific period, and directs a supplier to deliver products at an arbitrary delivery date planned by the supplier, and the arbitrary delivery date is before the end of the specific period, and each order of the second type designates a specific due date, and directs the supplier to deliver products corresponding to the third order on the specific due date, wherein a respective capacity is reserved for each order of the first type and the second type; and
identifying and selecting at least one of the orders of the first type to be pushed out if another order with a pull-in demand is received or a production event occurs during product manufacturing in the supplier.

18. (Original): The method of claim 17 further comprising allocating additional capacity for the pushed out order.

19. (Original): The method of claim 18 further comprising generating a new manufacturing planning schedule and a delivery date for the pushed out order.

20. (Previously Presented): The method of claim 17 further comprising separating the orders based on a respective corresponding billing condition directing the supplier to generate a bill for the orders of the first type as late as possible.

21. (Currently Amended): A machine-readable storage medium storing a computer program which when executed causes a computer to perform a capacity management method, the method comprising the steps of:

receiving a plurality of orders, wherein the orders are classified into a first type and a second type, the first type orders comprises at least a first order having a period delivery demand, in which the period delivery demand designates a specific period, and directs a supplier to deliver products corresponding to the first order at an arbitrary delivery date planned by the supplier, and the arbitrary delivery date is before the end of the specific period, and the second type orders comprises at least a third order having an on-schedule delivery demand, wherein the on-schedule delivery demand designates a specific due date, and directs the supplier to deliver products corresponding to the third order on the specific due date, wherein a respective capacity is reserved for the first order and the third order;

receiving a second order with a pull-in demand; [[and]]

identifying and selecting at least one of the first order within the first type orders;

and

pushing out the selected first order, and directing the capacity reserved for the selected first order to meet the second order.

22. (Currently Amended): The storage medium of claim 21 wherein the method further comprises a step of allocating additional capacity for the selected first order.

23. (Currently Amended): The storage medium of claim 22 wherein the method further comprises a step of generating a new manufacturing planning schedule and delivery dates for the selected first order and second order.

24. (Currently Amended): The storage medium of claim 21 wherein the selected first order further has a billing condition directing the supplier to generate a bill for the selected first order as late as possible.

25. (Currently Amended): A machine-readable storage medium storing a computer program which when executed causes a computer to perform a capacity management method, the method comprising the steps of:

receiving a plurality of orders, wherein the orders are classified into a first type and a second type, the first type orders comprises at least a first order having a period delivery demand, in which the period delivery demand designates a specific period, and directs a supplier to deliver products corresponding to the first order at an arbitrary delivery date planned by the supplier, and the arbitrary delivery date is before the end of the specific period, and the second type orders comprises at least a third order having an on-schedule delivery demand, wherein the on-schedule delivery demand designates a specific due date, and directs the supplier to deliver products corresponding to the third order on the specific due date, wherein a respective capacity is reserved for the first order and the third order;
[[and]]

identifying and selecting at least one of the first order within the first type orders if a production event occurs during product manufacturing in the supplier;
and
pushing out the selected first order, and directing the capacity reserved for the selected first order to meet another order if a production event occurs during product manufacturing in the supplier.

26. (Currently Amended): The storage medium of claim 25 wherein the method further comprises a step of allocating additional capacity for the selected first order.

27. (Currently Amended): The storage medium of claim 26 wherein the method further comprises a step of generating a new manufacturing planning schedule and a delivery date for selected the first order.

28. (Currently Amended): The storage medium of claim 25 wherein the selected first order further has a billing condition directing the supplier to generate a bill for the selected first order as late as possible.

29. (Currently Amended): A machine-readable storage medium storing a computer program which when executed causes a computer to perform a capacity management method, the method comprising the steps of:

separating orders based on respective corresponding delivery demand, thus identifying orders of a first type and a second type, in which each order of

the first type designates a specific period, and directs a supplier to deliver products at an arbitrary delivery date planned by the supplier, and the arbitrary delivery date is before the end of the specific period, and each order of the second type designates a specific due date, and directs the supplier to deliver products corresponding to the third order on the specific due date, wherein a respective capacity is reserved for each order of the first type and the second type; and
identifying and selecting at least one of the orders of the first type to be pushed out if another order with a pull-in demand is received or a production event occurs during product manufacturing in the supplier.

30. (Original): The storage medium of claim 29 wherein the method further comprises a step of allocating additional capacity for the pushed out order.

31. (Original): The storage medium of claim 30 wherein the method further comprises a step of generating a new manufacturing planning schedule and a delivery date for the pushed out order.

32. (Previously Presented): The storage medium of claim 29 wherein the method further comprises a step of separating the orders based on a respective corresponding billing condition directing the supplier to generate a bill for the orders of the first type as late as possible.